



09-17-04

IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicant(s) : Steven K. Rogers
Serial No. : 10/674,232
Filed : September 29, 2003
Title : USE OF COMPUTER-AIDED DETECTION SYSTEM OUTPUTS IN
CLINICAL PRACTICE
Docket : ICA 0004 IA/32524.36
Art Unit : 2621

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on September 16, 2004.


Kristina E. Swanson Reg. No. 53,657

Sir:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56, 1.97, AND 1.98

Applicant submits herewith patents, publications, and other information of which he is aware, which he believes may be material, as defined in 37 CFR §1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56(a). While the information referred to in this Information Disclosure Statement may be material pursuant to 37 CFR §1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 CFR §1.97(h), constitute an admission that any patent, publication, or other information referred to is, or is considered to be, material to the patentability of this invention. No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103, and Applicant reserves the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish otherwise. Further, pursuant to 37 CFR §1.97(g), the filing of this Statement should not be construed as a statement that a search has been made or that no other material information exists.


Serial No. 10/674,232
Docket ICA 0004 IA/32524.36

This Information Disclosure Statement is being filed within the period set forth in 37 CFR §1.97(b) because it is believed to be filed before the mailing date of a first office action on the merits.

The above application is a continuation of U.S. Application Serial No. 10/280,237 filed October 25, 2002. Pursuant to §1.98(d), copies of those items cited by or submitted to the Office in the prior application are not being submitted.

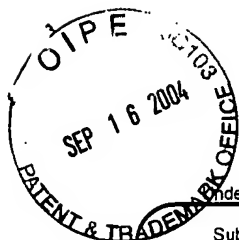
The Office has waived the requirement pursuant to 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003. Therefore, no copies of each cited U.S. patent and each cited U.S. patent application publication are enclosed, but the cited U.S. patents and the cited U.S. patent application publications are listed on PTO/SB/08A.

Respectfully submitted,
DINSMORE & SHOHL LLP

By 
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KES/vlh
Encl.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 15

Complete if Known

Application Number	10/674,232
Filing Date	September 29, 2003
First Named Inventor	Steven K. Rogers
Art Unit	2621
Examiner Name	
Attorney Docket Number	ICA 0004 IA/32524.36

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 4,453,266	06/05/1984	Bacus	
		US- 4,723,553	02/09/1988	Miwa et al.	
		US- 4,736,439	04/05/1988	May	
		US- 4,747,156	05/24/1988	Wahl	
		US- 4,907,156	03/06/1990	Doi et al.	
		US- 5,133,020	07/21/1992	Giger et al.	
		US- 5,212,637	05/18/1993	Saxena	
		US- 5,260,871	11/09/1993	Goldberg	
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		US- 5,452,367	09/19/1995	Bick et al.	
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		US- 5,572,565	11/05/1996	Abdel-Mottaleb	
		US- 5,574,799	11/12/1996	Bankman et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
		WO 02/42998 A2	11/21/2001	Roehrig		

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet	2	of	15	Attorney Docket Number	ICA 0004 IA/32524.36

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		US- 5,579,360	11/26/1996	Abdel-Mottaleb	
		US- 5,586,160	12/17/1996	Mascio	
		US- 5,598,481	01/28/1997	Nishikawa et al.	
		US- 5,615,243	03/25/1997	Chang et al.	
		US- 5,622,171	04/22/1997	Asada et al.	
		US- 5,625,717	04/29/1997	Hashimoto et al.	
		US- 5,627,907	05/06/1997	Gur et al.	
		US- 5,633,948	05/27/1997	Kegelmeyer, Jr.	
		US- 5,638,458	06/10/1997	Giger et al.	
		US- 5,657,362	08/12/1997	Giger et al.	
		US- 5,661,820	08/26/1997	Kegelmeyer, Jr.	
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		US- 5,729,662	03/17/1998	Rozmus	
		US- 5,732,697	03/31/1998	Zhang et al.	
		US- 5,740,266	04/14/1998	Weiss et al.	
		US- 5,740,267	04/14/1998	Echerer et al.	

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Sheet 3 of 15

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		Number-Kind Code ² (if known)			
		US- 5,740,268	04/14/1998	Nishikawa et al.	
		US- 5,757,953	05/26/1998	Jang	
		US- 5,761,334	06/02/1998	Nakajima et al.	
		US- 5,768,333	06/16/1998	Abdel-Mottaleb	
		US- 5,768,406	06/16/1998	Abdel-Mottaleb	
		US- 5,769,074	06/23/1998	Barnhill et al.	
		US- 5,799,100	08/25/1998	Clarke et al.	
		US- 5,857,030	01/05/1999	Gaborski et al.	
		US- 5,999,639	12/07/1999	Rogers et al.	
		US- 6,091,841	07/18/2000	Rogers et al.	
		US- 6,075,879	06/13/2000	Roehrig et al.	
		US- 6,115,488	09/05/2000	Rogers et al.	
		US- 6,137,898	10/24/2000	Broussard et al.	
		US- 5,779,634	07/14/1998	Ema et al.	
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		US- 5,832,103	11/03/1998	Giger et al.	
		US- 5,917,929	06/29/1999	Marshall et al.	
		US- 6,205,236 B1	03/20/2001	Rogers et al.	
		US- 6,137,898	10/24/2000	Broussard et al.	

FOREIGN PATENT DOCUMENTS

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Sheet	4	of	15
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	Attorney Docket Number	ICA 0004 IA/32524.36

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		WINSBERG, P., et al., "Detection of Radiographic Abnormalities in Mamograms by Means of Optical Scanning and Computer Analysis," Radiology, August 1967, pp. 211-215, Vo. 89	
		ACKERMAN, L.V., "Computer Classification of Radiographs and Xerograms of the Breast," Ph.D. Dissertation, University of Illinois at the Medical Center, October 1970	
		HALL, E.L., et al., "A Survey of Preprocessing and Feature Extraction Techniques for Radiographic Images," IEEE Transactions on Computers, September 1971, pp. 1032-1044, Vol. 20, No. 9	
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		BALLARD, D., et al., "Tumor Detection in Radiographs," Computers and Biomedical Research, 1973, pp. 299-321, Vol. 6	
		ACKERMAN, L.V., et al., "Classification of Benign and Malignant Breast Tumors on the Basis of 36 Radiographic Properties," Cancer, 1973, p. 138, Vol. 31, No. 2	
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		KIMME, C., et al., "Automatic Detection of Suspicious Abnormalities in Breast Radiographs," Data Structures, Computer Graphics and Pattern Recognition, 1975, pp. 427-447	

Examiner Signature		Date Considered	
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		TING, Y.C., "A Computer Pattern Recognition System for Greast Cancer Detection," Master's Thesis, University of Cincinnati, 1975	
		MILLIS, R. R., The Detection and Significance of Calcifications in the Breast: A Radiological and Pathological Study," British Journal of Radiology, January 1976, pp. 12-26, Vol. 49, No. 577	
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		BHAHU, B., "Automatic Target Recognition: State of the Art Survey," IEEE Transactions on Aerospace and Electronic Systems, July 1986, pp. 364-379, Vol. AES-22, No. 4	

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Sheet	7	of	15	Attorney Docket Number	ICA 0004 IA/32524.36

NON PATENT LITERATURE DOCUMENTS			
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		METZ, Ph.D., C.E., "ROC Methodology in Radiologic Imaging," Investigative Radiology, September 1986, pp. 720-733, Vol. 21, No. 9	
		LIPPMANN, R.P., "An Introduction to Computing with Neural Nets," IEEE ASSP Magazine, April 1987, pp. 4-22, Vol. 96	
		CHAN, H-P, et al., "Image Feature Analysis and Computer-Aided Diagnosis in Digital Radiography. I. Automated Detection of Microcalcifications in Mammography," Med. Phys., July/August 1987, pp. 538-548, Vol. 14, No. 4	
		KAHN, E., et al., "Computer Analysis of Breast Calcifications in Mammographic Images," Proceedings of the International Symposium on Computer Assisted Radiology '87, Lemke, U., et al., editors, 1987, pp. 729-733	
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		FAM, B.W., et al., "Algorithm for the Detection of Fine Clustered Calcifications on Film Mammograms," Radiology, October 1988, pp. 333-337, Vol. 169, No. 1	
		FAM, B.W., et al., "The Detection of Calcification Clusters in Film-Screen Mammograms; A Detailed Algorithmic Approach," Medical Imaging II, 1988, pp. 620-634, Vol. 914	
		DHAWAN, A. P., et al., "Mammographic Feature Enhancement by Computerized Image Processing," Computer Methods and Programs in Biomedicine, 1988, pp. 23-35, Vol. 27	
		DAVIES, D. H. and DANCE, D.R., "Automatic Detection of Microcalcifications in Digital Mammograms Using Local Area Thresholding Techniques," SPIE's Conference on Medical Imaging III Image Processing, Newport Beach, CA, Jan. 31-Feb.-3, 1989, pp. 153-159, Vol. 1092	
		AYER, K.W. et al., "Forward Looking Infrared Image Segmentation and Pattern Recognition Using Gabor Transform and Joint Transform Correlation Techniques," Wright Laboratories, Air Force Institute of Technology, Technical Report, March 1990	

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				Filing Date	September 29, 2003
				First Named Inventor	Steven K. Rogers
				Art Unit	2621
				Examiner Name	
Sheet	8	of	15	Attorney Docket Number	OCA 0004 IA/32524.36

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		KEGELMEYER, JR., W.P., "Evaluation of Stellate Lesion Detection in a Standard Mammogram Data Set," State of the Art in Digital Mammographic Image Analysis, Boyer, K.W. et al., editors 1994, (pp. 262-279)	

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Examiner Signature		Date Considered	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Sheet	15	of	15	Application Number	10/374,232
				Filing Date	September 29, 2003
				First Named Inventor	Steven K. Rogers
				Art Unit	2621
				Examiner Name	
				Attorney Docket Number	OCA 0004 IA/32524.36

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		ZHENG, Y., et al., "Reduction of Breast Biopsies with a Modified Self-Organizing Map," IEEE Transactions on Neural Networks, Vol. 8, No. 6, November 1997, (pp. 1386-1396)	
		ANASTASIO, M.A., et al., "Optimization and FROC Analysis of Rule-Based Detection Schemes Using a Multiobjective Approach," Correspondence in IEEE Transactions on Medical Imaging, August 26, 1998	

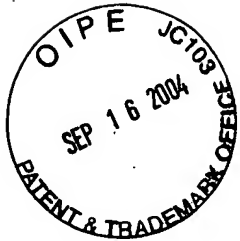
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicants : Steven K. Rogers

Title : USE OF COMPUTER-AIDED DETECTION SYSTEM OUTPUTS IN
CLINICAL PRACTICE

Docket No. : ICA 0004 IA/32524.36

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Date of Deposit September 16, 2004

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